DERWENT-ACC-NO: 1992-225629

DERWENT-WEEK: 199227

TITLE: Electronic stringed instrument e.g. guitar synthesiser -
                has string pitch and envelope detectors and programmable
                controller for assigning tones and/or effects to each
                string

INVENTOR: IBA, A; MANABE, H ; MURATA, Y

PATENT-ASSIGNEE: CASIO COMPUTER CO LTD[CASK]

PRIORITY-DATA: 1988JP-0220558 (September 5, 1988) , 1987JP-0253230
(October 7,
1987) , 1987JP-0253231 (October 7, 1987) , 1987JP-0253235 (October 7, 1987)
, 1987JP-0256024 (October 9, 1987) , 1987JP-0259243 (October 14, 1987)
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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5121669 A	June 16, 1992	N/A	084	G10H 001/06

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
US 5121669A	Div ex	1988US-0256398	October 7, 1988
US 5121669A	N/A	1990US-0556954	July 20, 1990

INT-CL (IPC): G10H001/06

RELATED-ACC-NO: 1991-206971

ABSTRACTED-PUB-NO: US 5121669A

BASIC-ABSTRACT:

An electronic stringed instrument employs a number of sensors or monitors for

instrument performance. Preferred sensors or monitors include a detector for detecting that a string of the instrument is vibrated, an apparatus for evaluating a string-vibration strength or a string touch, an apparatus for discriminating a fret operation position on a fingerboard or a fundamental frequency of a vibration of the vibrated string, a tremolo arm sensor, and a string-bending sensor.

These performance input parameters are assigned to various control functions for musical tones generated by a sound source and/or various control functions for effects added to these musical tones by an effector. The function assignment is preferably programmable. In operation, a music control apparatus, controls the sound source and/or effector in response to a performance monitor so that musical tones for the strings can be distinguished from each other or effects for the musical tones can be distinguished from each other.

USE - E.g. guitar synthesizer.

CHOSEN-DRAWING: Dwg.1/66

TITLE-TERMS: ELECTRONIC STRING INSTRUMENT GUITAR SYNTHESISER STRING PITCH
          ENVELOPE DETECT PROGRAM CONTROL ASSIGN TONE EFFECT STRING

DERWENT-CLASS: P86 W04

EPI-CODES: W04-U02; W04-U03C;

SECONDARY-ACC-NO:
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